

**REMARKS**

Response to restriction

Claims 1-29 are subject to restriction in the present application.

The Examiner has required election in the present application among:

Group I, claims 1-10, drawn to a composition comprising at least one inhibitor of adenylate cyclase activity;

Group II, claims 11-26 and 29, drawn to a process comprising culturing pluripotent stem cells under a condition such that adenylate cyclase activity is inhibited; and

Group III, claims 27 and 28, drawn to a clonal population of undifferentiated pluripotent stem cells..

**For the purpose of examination of the present application, Applicants elect, without traverse, Group II, Claims 11-26, and 29.**

Amendment of claims

Non-elected claims 1-10 and 27-28 are canceled. Claim 29, directed to a non-statutory “use” is also canceled.

Claims 12, 13, 19, 20, 22 and 23 are amended, and new claims 30-40 are added, incorporating the subject matter of canceled claims 3-10 into the elected method claims and removing dependency upon canceled claims. Support for new claims 37-40 is found in Examples 2 and 3 of the specification, beginning at the bottom of page 29.

**In view of the addition of claims 30-33, Applicants hereby elect SQ22536 (9-(tetrahydro-2-furanyl)adenine) as the species of adenylate cyclase inhibitor for initial examination.** This election is made with the understanding that, should the Examiner find claims directed to this species patentable, further species will be examined to determine if a generic claim is patentable.

New claims 30 and 31 recite the elected species as a member of a Markush group. New claims 39 and 40 recite the elected species. New claims 32-36 are generic or subgeneric with respect to the elected species.

**CONCLUSION**

Favorable action on the merits of the application is respectfully requested.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact Mark J. Nuell, Registration No 36,623 at the telephone number of the undersigned below, to conduct an interview in an effort to expedite prosecution in connection with the present application.

- Attached is a Petition for Extension of Time.
- Attached hereto is the fee transmittal listing the required fees.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to our Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Dated: March 11, 2008

Respectfully submitted,

By   
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